

Listing of the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1 1. (Currently Amended) An audio device for providing music to a user, comprising:
2 a) transducers for generating the music from musical signals; and
3 b) a support for holding the transducers in vibratory contact with a user's head,
4 wherein each of the transducers is positionable at multiple locations on said the
5 support, wherein the support includes a band structure that fits around the user's
6 head.

1 2. (Previously presented) The audio device according to claim 1, further comprising a housing
2 means for housing each of the transducers which includes a waterproofing polymeric material
3 which covers each of the transducers.

1 3. (Canceled).

1 4. (Previously presented) The audio device according to claim 1, wherein the musical-signals are
2 produced in multiple frequency channels.

1 5. (Previously presented) The audio device according to claim 4, wherein the multiple frequency
2 channels include:

3 a) a low frequency channel, corresponding to music signals at frequencies in a range
4 of 40 to 1,000 Hz;
5 b) a mid frequency channel, corresponding to music signals at frequencies in a range
6 of 250 to 6,000 Hz; and
7 c) a high frequency channel, corresponding to music signals at frequencies in a range
8 of 5000 to 20,000 Hz.

- 1 6. (Previously presented) The audio device according to claim 1, wherein at least one of the
- 2 transducers is an ultrasonic transducer.
- 1 7. (Previously presented) The audio device according to claim 1, wherein at least one of the
- 2 transducers is a vibrotactile transducer.
- 1 8. (Previously presented) The audio device according to claim 1, further including at least one
- 2 amplifier coupled to one or more of the transducers for amplifying the musical signals.
- 1 9. (Currently Amended) The audio device according to claim 1, further comprising attachment
- 2 features which attach said the transducers to said support the band structure.
- 1 10. (Previously presented) The audio device according to claim 9, wherein that attachment
- 2 features are attachment features selected from the group consisting of slide positioning guide
- 3 features, hook features, snaps features and hook and loop fabric features.
- 1 11-14. (Canceled).
- 1 15. (Previously presented) The audio device according to claim 5, wherein a volume of the
- 2 music from the low frequency channel is adjustable.
- 1 16. (Previously presented) The audio device according to claim 5, wherein a volume of the
- 2 music from the mid frequency channel is adjustable.
- 1 17. (Previously presented) The audio device according to claim 5, wherein a volume of the
- 2 music from the high frequency channel is adjustable.
- 3
- 4 18. (Previously presented) The audio device according to claim 5, wherein the music generated
- 5 from the mid frequency channel has a fixed maximum volume of 90 dBA.
- 1 19. (Previously presented) The audio device of claim 1, wherein the audio device transmits the
- 2 music at high fidelity frequencies of 40 KHz or more.

1 20. (Previously presented) The audio device of claim 19, wherein the transducers include an
2 ultrasonic transducer.

1 21. (Previously presented) The audio device of claim 19, wherein the transducers include a
2 vibrotactile transducer.

1 22. (Previously presented) The audio device of claim 19, wherein the audio device includes a
2 volume control for adjusting a volume of music with high fidelity frequencies of 40,000 Hz or
3 more.

1 23. (Previously presented) The audio device of claim 5, wherein a volume of at least one of the
2 multiple frequency channels is independently adjustable from a volume of another of the multiple
3 frequency channels.

1 24. (Canceled).

1 25. (Canceled).

1 26. (Currently Amended) The audio device of claim 19, wherein the support ~~comprises a band~~
2 ~~which fits on a user's head~~ includes goggles.

1 27. (Previously presented) The audio device of claim 1 further comprising a sound source for
2 providing the musical signals to the transducers.

1 28. (Previously presented) The audio device of claim 27 wherein the sound source provides the
2 musical signals to the transducers through a wire connection.

1 29. (Previously presented) The audio device of claim 27 wherein the sound source provides the
2 musical signals to the transducers through a wireless connection.

1 30. (Previously presented) The audio device of claim 27 wherein the sound source attaches to the
2 support.

1 31. (Previously presented) The audio device of claim 27 wherein the sound source is selected
2 from the group consisting of an MP3 player, a tape player, a radio, an audio transceiver, and a
3 disc player.

1 32. (Currently Amended) A recreational audio device, comprising :

- 2 a) transducers that include a polymeric waterproofing cover and that produce an
3 audio output; and
- 4 b) a support band which fits around a user's head and holds the transducer in contact
5 with a plurality of locations around the head of the user, wherein the transducers
6 are movable to different locations on said the support band, and wherein the
7 transducers generate an audio output transmitted to the user through
8 transcutaneous bone conduction.

1 33. (Canceled).

1 34. (Canceled).

1 35.(Currently Amended) The recreational audio device according to claim 32 wherein said at
2 the least one transducer can slide to different locations on said support the band the transducers
3 are movable to different locations on said support through one or more of slide positioning guide
4 features, hook features, snap features and hook and loop fabric features.

1 36-38. (Canceled).

1 39. (Previously presented) The recreational audio device of claim 32 further comprising a sound
2 source for providing audio signals that generate the audio output through transducers.

1 40. (Currently Amended) A method for a user to listen to music via transcutaneous bone
2 conduction, comprising the steps of:

- 3 a) supplying musical signals from a source to transducers each of which include a
4 water proof housing at least partially formed from a polymeric material;
- 5 b) contacting the transducers at positions on the user's head using a band that goes
6 around the user's head; and

7 c) transmitting music through the user's head by transcutaneous bone conduction
8 through the polymeric material while the user's head is under water.

1 41. (Previously presented) The method recited in claim 40, further comprising a step of tuning
2 the music.

1 42. (Previously presented) The method of claim 41 wherein tuning the music comprises changing
2 one or more of the positions of the transducers on the user's head.

1 43. (Previously presented) The method of claim 40, wherein the musical signals are divided
2 among multiple frequency channels.

3
4 44. (Canceled).

1 45. (Currently Amended) The method of claim 42 wherein changing the one or more of the
2 positions of the transducers on the user's head includes changing a position of one or more of the
3 transducers on said support the band.

1 46. (Previously presented) The method of claim 40 comprising adjusting a volume output of one
2 or more of the transducers.

1 47. (Previously presented) The method of claim 43 further comprising limiting an output of
2 music from one or more of the multiple frequency channels.

1 48-50. Canceled

1 51. (Currently Amended) The audio device of claim 1 wherein said support is a the band is
2 connected to a pair of swimming goggles, and said the transducers are positionable at multiple
3 locations along a length of said the band.